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PCT10

RAW SEQUENCE LISTING

DATE: 11/14/2002

PATENT APPLICATION: US/10/031,893

TIME: 14:55:25

Input Set : A:\Sequence Listing (ASCII copy) - US2.txt

Output Set: N:\CRF4\11142002\J031893.raw

USE

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3 <110> APPLICANT: EISEN, ANDREW
5 <120> TITLE OF INVENTION: DROSOPHILA RECOMBINATION-ASSOCIATED PROTEIN AND METHODS FOR
7 <130> FILE REFERENCE: 2567/1F496-US2
9 <140> CURRENT APPLICATION NUMBER: US 10/031,893
10 <141> CURRENT FILING DATE: 2002-01-22
12 <150> PRIOR APPLICATION NUMBER: US 60/144,736
13 <151> PRIOR FILING DATE: 1999-07-21
15 <150> PRIOR APPLICATION NUMBER: PCT/US/00/19901
16 <151> PRIOR FILING DATE: 2000-07-21
18 <160> NUMBER OF SEQ ID NOS: 32
20 <170> SOFTWARE: PatentIn version 3.0
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 1378
24 <212> TYPE: DNA
25 <213> ORGANISM: Drosophila melanogaster
27 <400> SEQUENCE: 1
28 agcgattacg gtagagatat ggtaatgcaa cgggtggatgt gaactccttg gtttgcggtg      60
30 aatgcgttca acggtggatc ttcgcttgca cctttcgcca tagacgacat acggatacag      120
32 atacagatac agaatggcct ccaacaacag tagtaccacc gatctggaca gccagggtcaa      180
34 tgtggaggat ttgcccataa cgttcaaggt gaagtacatt ggttccgaag tggcacgtgg      240
36 cttatggggc attaagtata cgcgtcgtcc ggttgacata atggtgggag tggccaagaa      300
38 cctgccgccc aataaggtgc tgcccaactg cgaactgaag gtgtccaccg acggagtcca      360
40 gctggagatc atatcgccaa aggccagcat caatcactgg agctatccca tcgacacgat      420
42 ctcgatatggc gttcaggacc tgggtctacac aagggtcttt gccatgatcg tggatgaagga      480
44 cgagtcgagt ccgcatccct ttgaggttca cgccttcgtg tgcgacagtc gtgcgatggc      540
46 gcggaagttg acctttgccc tggccggccg ccttccagga ttactcgcca cgggtcaagg      600
48 aggcaaccgg tgaggaggag ggcgaggcca cgcccagcga cactattaca cccacgcgac      660
50 acaagttcgc catcgatctg cgaacgccgg agaaatccag gctggcgaac tggagcagga      720
52 aacggaggcg tagttatcct ggtgatcctg cgttggctcc gtcaatgaga tgtgatgtgt      780
54 tagttactta acgtccagtg ttcactgtat ctgtaaattg tggttctctc acctggtagt      840
56 tgcctcatat agctaattac ccaaagccta agtgtaata cgatttgtaa acgatttcta      900
58 aaataaatta cgaatatggt atgtttggct atttgaattg ggctacaacc tgttgatatg      960
60 ccacttggca aaaaaaaaaa acgccagcac caattctttt acttctgttt cttgtgaccg      1020
62 acataaaaga tgcaccaaag ctgctattcc accagcggtt tttattccac gcttgttttc      1080
64 atcattttgt cttccgtaag ataaattacg taaagcacca caggcatttt tatgtatttc      1140
66 tggagaatca taagatagca gtcgaactaa tgggtgtata cctcccagag atcttgtacg      1200
68 ttgcttgttt ggcacatcca ttagcacaaa atgctgtaga taggctgctg cattagcttt      1260
70 tatagcacta ctcgggttgc ttaaaaagct tattacttct gaaagatttg gatcccgcca      1320
72 tctcattgta gaacaaatat cattttctga tccttcaatg taatcatcct tttcttcc      1378
75 <210> SEQ ID NO: 2
76 <211> LENGTH: 477
77 <212> TYPE: DNA
78 <213> ORGANISM: Drosophila melanogaster

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80 <400> SEQUENCE: 2
81 atggcctcca acaacagtag taccaccgat ctggacagcc aggtcaatgt ggaggatttg      60
83 ccataaacgt tcaaggtgaa gtacattggt tccgaagtgg cacgtggctt atggggcatt      120
85 aagtatacgc gtcgtccggt tgacataatg gtgggcgtgg ccaagaacct gccgccaat      180
87 aaggtgctgc ccaactgcga actgaagggtg tccaccgacg gagtccagct ggagatcata      240
89 tcgccaaagg ccagcatcaa tcaactggagc tatcccatcg acacgatctc gtatggcggt      300
91 caggacctgg tctacacaag ggtctttgcc atgatcgtgg tgaaggacga gtcgagtcgg      360
93 catccctttg aggttcacgc cttcgtgtgc gacagtcgtg cgatggcgcg gaagttgacc      420
95 tttgccctgg ccggccgcct tccaggatta ctgcgcgacgg gtcaaggagg caaccgg      477
98 <210> SEQ ID NO: 3
99 <211> LENGTH: 507
100 <212> TYPE: DNA
101 <213> ORGANISM: Drosophila melanogaster
103 <400> SEQUENCE: 3
104 acgacatacg gatacagata cagatacaga atggcctcca acaacagtag taccaccgat      60
106 ctggacagcc aggtcaatgt ggaggatttg ccataaacgt tcaaggtgaa gtacattggt      120
108 tccgaagtgg cacgtggctt atggggcatt aagtatacgc gtcgtccggt tgacataatg      180
110 gtgggcgtgg ccaagaacct gccgccaat aaggtgctgc ccaactgcga actgaagggtg      240
112 tccaccgacg gagtccagct ggagatcata tcgccaaagg ccagcatcaa tcaactggagc      300
114 tatcccatcg acacgatctc gtatggcggt caggacctgg tctacacaag ggtctttgcc      360
116 atgatcgtgg tgaaggacga gtcgagtcgg catccctttg aggttcacgc cttcgtgtgc      420
118 gacagtcgtg cgatggcgcg gaagttgacc tttgccctgg ccggccgcct tccaggatta      480
120 ctgcgcgacgg gtcaaggagg caaccgg      507
123 <210> SEQ ID NO: 4
124 <211> LENGTH: 159
125 <212> TYPE: PRT
126 <213> ORGANISM: Drosophila melanogaster
128 <400> SEQUENCE: 4
130 Met Ala Ser Asn Asn Ser Ser Thr Thr Asp Leu Asp Ser Gln Val Asn
131 1 5 10 15
133 Val Glu Asp Leu Pro Ile Thr Phe Lys Val Lys Tyr Ile Gly Ser Glu
134 20 25 30
136 Val Ala Arg Gly Leu Trp Gly Ile Lys Tyr Thr Arg Arg Pro Val Asp
137 35 40 45
139 Ile Met Val Gly Val Ala Lys Asn Leu Pro Pro Asn Lys Val Leu Pro
140 50 55 60
142 Asn Cys Glu Leu Lys Val Ser Thr Asp Gly Val Gln Leu Glu Ile Ile
143 65 70 75 80
145 Ser Pro Lys Ala Ser Ile Asn His Trp Ser Tyr Ile Pro Asp Thr Ile
146 85 90 95
148 Ser Tyr Gly Val Gln Asp Leu Val Tyr Thr Arg Val Phe Ala Met Ile
149 100 105 110
151 Val Val Lys Asp Glu Ser Ser Pro His Pro Phe Glu Val His Ala Phe
152 115 120 125
154 Val Cys Asp Ser Arg Ala Met Ala Arg Lys Leu Thr Phe Ala Leu Ala
155 130 135 140
157 Gly Arg Leu Pro Gly Leu Leu Ala Thr Gly Gln Gly Gly Asn Arg
158 145 150 155
160 <210> SEQ ID NO: 5

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161 <211> LENGTH: 6
162 <212> TYPE: PRT
163 <213> ORGANISM: Artificial Sequence
165 <220> FEATURE:
166 <221> NAME/KEY: misc_feature
167 <223> OTHER INFORMATION: Antigenic peptide
170 <400> SEQUENCE: 5
172 Lys Asp Glu Ser Ser Pro
173 1 5
175 <210> SEQ ID NO: 6
176 <211> LENGTH: 6
177 <212> TYPE: PRT
178 <213> ORGANISM: Artificial Sequence
180 <220> FEATURE:
181 <221> NAME/KEY: misc_feature
182 <223> OTHER INFORMATION: Antigenic peptide
185 <400> SEQUENCE: 6
187 Thr Arg Arg Pro Val Asp
188 1 5
190 <210> SEQ ID NO: 7
191 <211> LENGTH: 6
192 <212> TYPE: PRT
193 <213> ORGANISM: Artificial Sequence
195 <220> FEATURE:
196 <221> NAME/KEY: misc_feature
197 <223> OTHER INFORMATION: Antigenic peptide
200 <400> SEQUENCE: 7
202 Arg Ala Met Ala Arg Lys
203 1 5
205 <210> SEQ ID NO: 8
206 <211> LENGTH: 130
207 <212> TYPE: DNA
208 <213> ORGANISM: Mus musculus
210 <400> SEQUENCE: 8
211 ggacagtgtgta ttcacagaga tttggcagcc aggaatatcc tcctcactca cgggcggatc 60
213 acaaagatttt gcgatttcgg gctagccaga gacatcagga atgattcgaa ttacgtggtc 120
215 aaaggaaatg 130
218 <210> SEQ ID NO: 9
219 <211> LENGTH: 37
220 <212> TYPE: DNA
221 <213> ORGANISM: Artificial Sequence
223 <220> FEATURE:
224 <221> NAME/KEY: misc_feature
225 <223> OTHER INFORMATION: potential mutagenic oligonucleotide
228 <400> SEQUENCE: 9
229 ggacagtgtgta ttcacagaga tttggcagcc aggaata 37
232 <210> SEQ ID NO: 10
233 <211> LENGTH: 15
234 <212> TYPE: DNA

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235 <213> ORGANISM: Artificial Sequence
237 <220> FEATURE:
238 <221> NAME/KEY: misc_feature
239 <223> OTHER INFORMATION: Primer
242 <400> SEQUENCE: 10
243 ggacagtgtta ttcac                                     15
246 <210> SEQ ID NO: 11
247 <211> LENGTH: 17
248 <212> TYPE: DNA
249 <213> ORGANISM: Artificial Sequence
251 <220> FEATURE:
252 <221> NAME/KEY: misc_feature
253 <223> OTHER INFORMATION: Primer
256 <400> SEQUENCE: 11
257 ttgcgatttc gggctag                                     17
260 <210> SEQ ID NO: 12
261 <211> LENGTH: 57
262 <212> TYPE: DNA
263 <213> ORGANISM: Drosophila melanogaster
265 <400> SEQUENCE: 12
266 tgtattcaca gaaatttggc agccaggaat atcctcactc acgggcggat cacaaag       57
269 <210> SEQ ID NO: 13
270 <211> LENGTH: 41
271 <212> TYPE: PRT
272 <213> ORGANISM: Mus musculus
274 <400> SEQUENCE: 13
276 Cys Ile His Arg Asp Leu Ala Ala Arg Asn Ile Leu Leu Thr His Gly
277 1           5           10           15
279 Arg Ile Thr Lys Ile Cys Asp Phe Gly Leu Ala Arg Asp Ile Arg Asn
280           20           25           30
282 Asp Ser Asn Tyr Val Val Lys Gly Asn
283           35           40
285 <210> SEQ ID NO: 14
286 <211> LENGTH: 20
287 <212> TYPE: PRT
288 <213> ORGANISM: Drosophila melanogaster
290 <400> SEQUENCE: 14
292 Cys Ile His Arg Asn Leu Ala Ala Arg Asn Ile Leu Leu Thr His Gly
293 1           5           10           15
295 Arg Ile Thr Lys
296           20
298 <210> SEQ ID NO: 15
299 <211> LENGTH: 10
300 <212> TYPE: PRT
301 <213> ORGANISM: Artificial Sequence
303 <220> FEATURE:
304 <221> NAME/KEY: misc_feature
305 <223> OTHER INFORMATION: Peptide motif
308 <400> SEQUENCE: 15

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310 Met Ile Val Val Lys Asp Glu Ser Ser Pro
311 1 5 10
313 <210> SEQ ID NO: 16
314 <211> LENGTH: 6
315 <212> TYPE: PRT
316 <213> ORGANISM: Artificial Sequence
318 <220> FEATURE:
319 <221> NAME/KEY: misc_feature
320 <223> OTHER INFORMATION: N-myristylation site
323 <400> SEQUENCE: 16
325 Gly Ser Glu Val Ala Arg
326 1 5
328 <210> SEQ ID NO: 17
329 <211> LENGTH: 6
330 <212> TYPE: PRT
331 <213> ORGANISM: Artificial Sequence
333 <220> FEATURE:
334 <221> NAME/KEY: misc_feature
335 <223> OTHER INFORMATION: N-myristylation site
338 <400> SEQUENCE: 17
340 Gly Ile Lys Tyr Thr Arg
341 1 5
343 <210> SEQ ID NO: 18
344 <211> LENGTH: 6
345 <212> TYPE: PRT
346 <213> ORGANISM: Artificial Sequence
348 <220> FEATURE:
349 <221> NAME/KEY: misc_feature
350 <223> OTHER INFORMATION: N-myristylation site
353 <400> SEQUENCE: 18
355 Gly Val Ala Lys Asn Leu
356 1 5
358 <210> SEQ ID NO: 19
359 <211> LENGTH: 6
360 <212> TYPE: PRT
361 <213> ORGANISM: Artificial Sequence
363 <220> FEATURE:
364 <221> NAME/KEY: misc_feature
365 <223> OTHER INFORMATION: N-myristylation site
368 <400> SEQUENCE: 19
370 Gly Leu Leu Ala Thr Gly
371 1 5
373 <210> SEQ ID NO: 20
374 <211> LENGTH: 33
375 <212> TYPE: DNA
376 <213> ORGANISM: Artificial Sequence
378 <220> FEATURE:
379 <221> NAME/KEY: misc_feature
380 <223> OTHER INFORMATION: oligonucleotide

VERIFICATION SUMMARY

DATE 11/14/2002

PATENT APPLICATION: US/10/031,893

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Input Set : A:\Sequence Listing (ASCII copy) - US2.txt

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